

IN THE CLAIMS

Claims 1-4 (Canceled)

5. (New) An optical fiber which has a dispersion value of 14 ps/nm/km or higher and 20 ps/nm/km or less at a wavelength of 1550 nm, a positive dispersion slope of 0.05 ps/nm<sup>2</sup>/km or higher and 0.08 ps/nm<sup>2</sup>/km or less at a wavelength of 1550 nm, a transmission attenuation of 0.2 dB/km or less at a wavelength of 1550 nm, and an effective core area  $A_{eff}$  of 90  $\mu\text{m}^2$  or larger at a wavelength of 1550 nm.

6. (New) The optical fiber according to claim 5, wherein the effective core  $A_{eff}$  at a wavelength of 1550 nm is 100  $\mu\text{m}^2$  or larger.

7. (New) The optical fiber according to claim 5, further comprising a center core portion, a side core portion and clad portion in order from an inner side, wherein a relative refractive index difference  $\Delta 1$  of the center core portion with respect to the clad portion is positive, a relative refractive index difference  $\Delta 2$  of the side core portion with respect to the clad portion is positive, and an inequality  $\Delta 1 > \Delta 2$  is satisfied.

8. (New) The optical fiber according to claim 6, further comprising a center core portion, a side core portion and clad portion in order from an inner side, wherein a relative refractive index difference  $\Delta 1$  of the center core portion with respect to the clad portion is positive, a relative refractive index difference  $\Delta 2$  of the side core portion with respect to the clad portion is positive, and an inequality  $\Delta 1 > \Delta 2$  is satisfied.

9. (New) An optical transmission line comprising:

a plurality of optical fibers, each of which configured to transmit an optical signal, wherein at least one of said plurality of optical fibers has a dispersion value of 14 ps/nm/km or higher and 20 ps/nm/km or less at a wavelength of 1550 nm, a positive dispersion slope of 0.05 ps/nm<sup>2</sup>/km or higher and 0.08 ps/nm<sup>2</sup>/km or less at a wavelength of 1550 nm, a

transmission attenuation of 0.2 dB/km or less at a wavelength of 1550 nm, and an effective core area  $A_{\text{eff}}$  of  $90 \mu\text{m}^2$  or larger at a wavelength of 1550 nm.

10. (New) An optical transmission line of claim 9, wherein the effective core  $A_{\text{eff}}$  of said at least one of the plurality of optical fibers at a wavelength of 1550 nm is  $100 \mu\text{m}^2$  or larger.